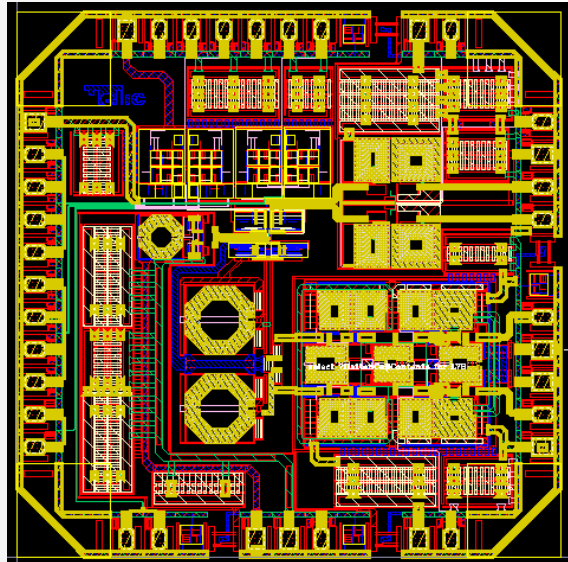


# RF/MW Industry Insight

## Keysight RF/MW Design Solutions



# ADS 2019 RF solutions



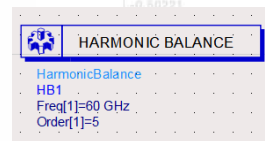
## Platform



## EM



## Circuit simulation

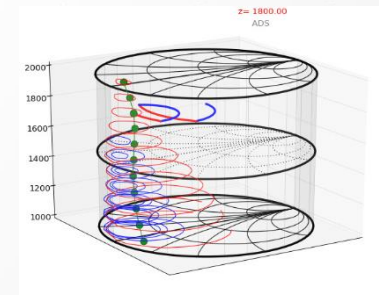
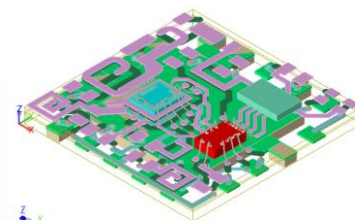


## Electrothermal

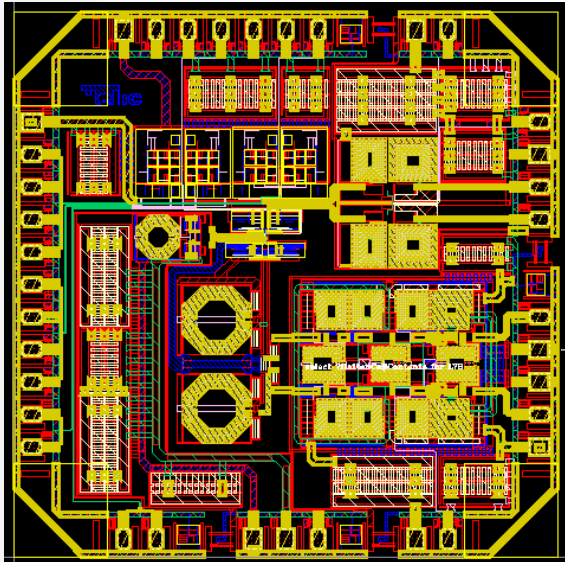


## Recent improvements:

- Improved Support for Layout Interoperability
- Datalink allows users to call Python scripts directly from Data Display
  - Advanced Plotting, Instrument Communication, Data import, Process measured data
- Easy assembly of multiple technologies with SmartMount
- Interactive DRC avoidance routing allows ADS users to route complex modules or packages while ensuring proper net connection and spacing compliance
- Performance boost and enhanced error reporting in DRC and LVS
  - Ability to run DRC and LVS in batch mode



# ADS 2019 RF solutions



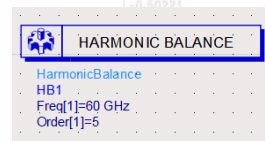
*Platform*



*EM*



*Circuit simulation*

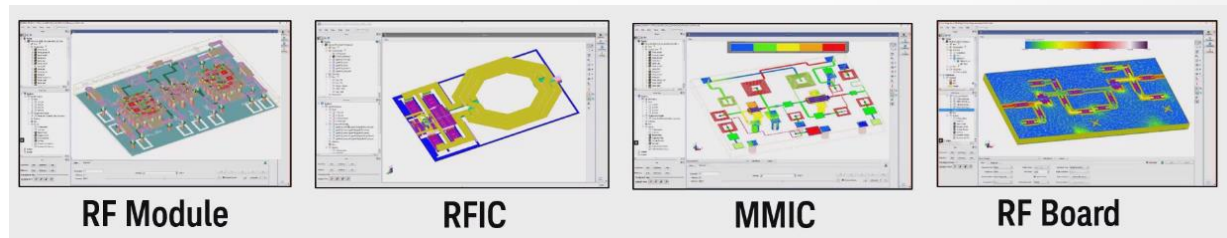


*Electrothermal*



## Recent improvements:

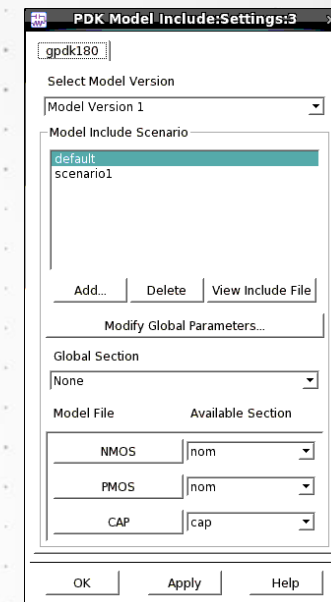
- Introducing RFPPro as the 1<sup>st</sup> EM platform for circuit and module designers
  - Modern 3D user interface
  - Automatic settings
  - No modification to the original layout
  - Improved Momentum and FEM solvers



# ADS 2019 RF solutions

## Recent improvements:

- PDK Model Include Utility
  - Standard and easy way to setup model sections in ADS
  - Scenario management simulations
- Improved speed for linear simulations
- Access to the latest 5G NR virtual testbenches
- Dramatic improvements in modulated simulations runtime



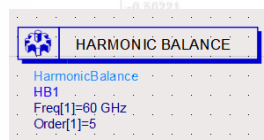
### Platform



### EM



### Circuit simulation



Envelope	Fast Envelope (no memory)	Fast Envelope (with memory)
14h	4mn	8mn

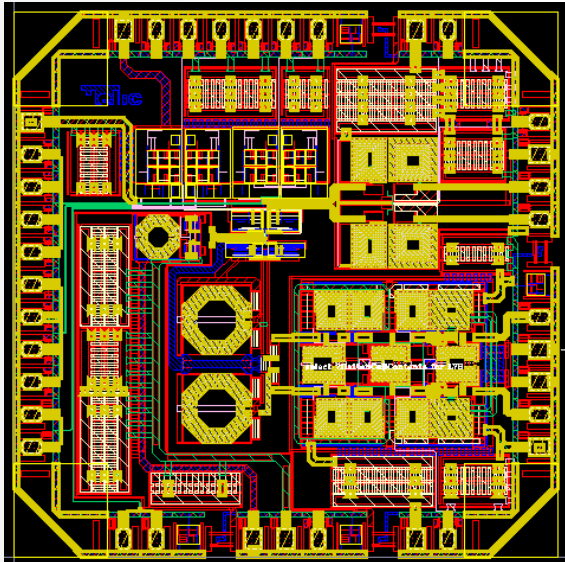


### Electrothermal





# ADS 2019 RF solutions



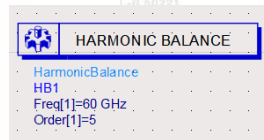
*Platform*



*EM*



*Circuit simulation*

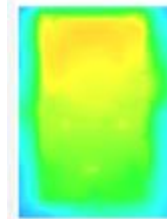


*Electrothermal*

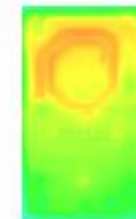


## Recent improvements:

- Automated setting of parameters to improve resolution



ADS 2017



ADS 2019

- A heat-source may be split across layers (in Z)
- Floor planner no longer blocks ADS use: local batch mode supported
- Ambient temperature may be swept : no need for multiple sims